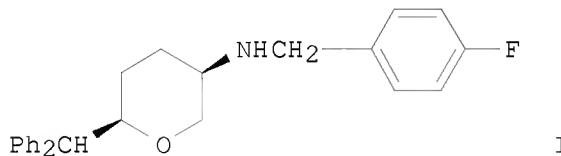


L12 ANSWER 5 OF 5 ZCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:293632 ZCPLUS <<LOGINID::20090928>>
 DOCUMENT NUMBER: 139:197329
 TITLE: Design, synthesis, and activity of novel cis- and trans-3,6-disubstituted pyran biomimetics of 3,6-disubstituted piperidine as potential ligands for the dopamine transporter
 AUTHOR(S): Zhang, Shijun; Reith, Maarteen E. A.; Dutta, Aloke K.
 CORPORATE SOURCE: Department of Pharmaceutical Sciences, Wayne State University, Detroit, MI, 48202, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13(9), 1591-1595
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:197329
 GI



AB In our effort to develop novel mols. for the dopamine transporter, we converted our previously designed dopamine transporter specific 3,6-disubstituted piperidine template into corresponding pyran derivs. Cis-Pyran derivative I, like their piperidine counterparts, exhibited greater activity for the dopamine transporter compared to the trans-isomer. Further mol. modifications of the cis derivative led to the development of potent analogs which indicated successful bioisosteric replacement of the piperidine ring by a pyran moiety in these 3,6-disubstituted derivs.

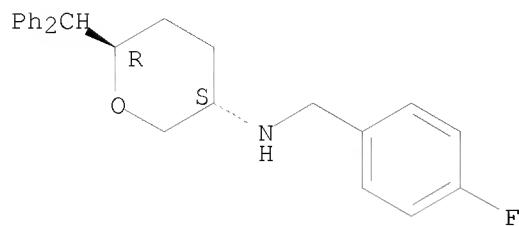
IT 585540-92-7P 585540-93-8P 585540-95-0P
585540-96-1P 585540-97-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of pyran biomimetics of piperidine as potential ligands for the dopamine transporter)

RN 585540-92-7 ZCPLUS

CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, (3R,6S)-rel- (CA INDEX NAME)

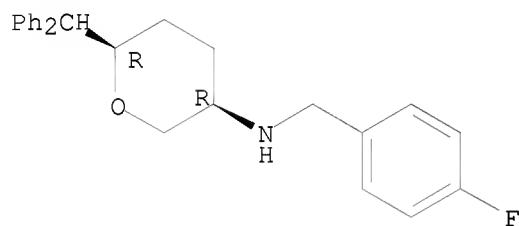
Relative stereochemistry.



RN 585540-93-8 ZCPLUS

CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, (3R,6R)-rel- (CA INDEX NAME)

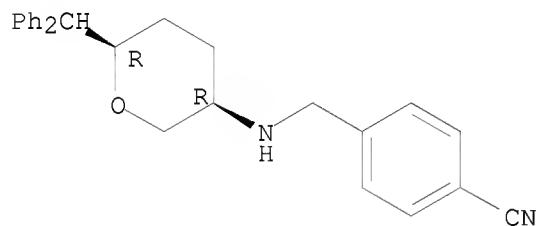
Relative stereochemistry.



RN 585540-95-0 ZCPLUS

CN Benzonitrile, 4-[[[(3R,6R)-6-(diphenylmethyl)tetrahydro-2H-pyran-3-yl]amino]methyl]-, rel- (CA INDEX NAME)

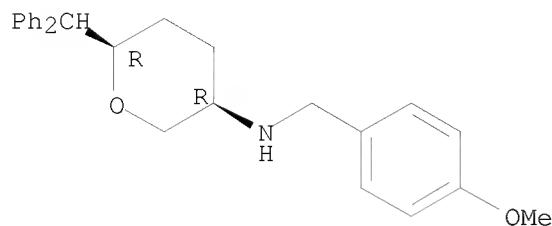
Relative stereochemistry.



RN 585540-96-1 ZCPLUS

CN 2H-Pyran-3-amine, 6-(diphenylmethyl)tetrahydro-N-[(4-methoxyphenyl)methyl]-, (3R,6R)-rel- (CA INDEX NAME)

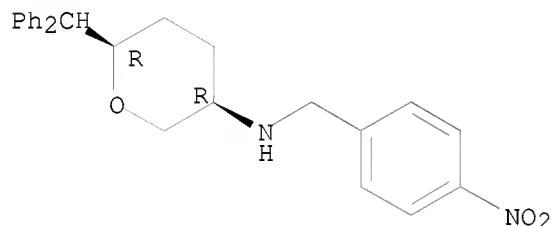
Relative stereochemistry.



RN 585540-97-2 ZCPLUS

CN 2H-Pyran-3-amine, 6-(diphenylmethyl)tetrahydro-N-[(4-nitrophenyl)methyl]-, (3R,6R)-rel- (CA INDEX NAME)

Relative stereochemistry.

IT **585540-98-3P 585540-99-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of pyran biomimetics of piperidine as potential ligands for the dopamine transporter)

RN 585540-98-3 ZCPLUS

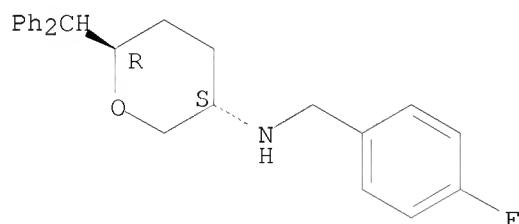
CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, ethanedioate (1:1), (3R,6S)-rel- (CA INDEX NAME)

CM 1

CRN 585540-92-7

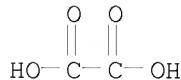
CMF C25 H26 F N O

Relative stereochemistry.



CM 2

CRN 144-62-7
CMF C2 H2 O4

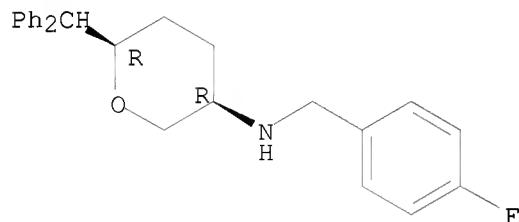


RN 585540-99-4 ZCPLUS
CN 2H-Pyran-3-amine, 6-(diphenylmethyl)-N-[(4-fluorophenyl)methyl]tetrahydro-, ethanedioate (1:1), (3R,6R)-rel- (CA INDEX NAME)

CM 1

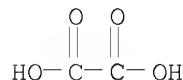
CRN 585540-93-8
CMF C25 H26 F N O

Relative stereochemistry.



CM 2

CRN 144-62-7
CMF C2 H2 O4



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT